



Series	R-Series LFP	Warranty	See Warranty Terms
Volts	24	Design	Grp 24
Terminal Type	M8		
Included Hardware	M8 stainless bolts & washers		

### Charge

Charge Voltage Range	28.0 - 29.2V	
Recommended End of Discharge Voltage	24.0 V	
End of Discharge Protection Voltage	20.0 V	
Recommended Charge Voltage	28.8 V	
Recommended Charge Current		
0~10°C (32-50°F)	0.2C	10A
10~35°C (50-95°F)	0.5C	25A
35~50°C (95-122°F)	0.2C	10A

### Charge Mode:

- Charge at recommend voltage & current by temperature until charge current drops to  $\leq 0.05C$  (CC,CV)
- DO NOT USE TEMPERATURE COMPENSATION
- No BTS (Battery Temperature Sensor)

Max Continuous Charge Current	25 A
Max Continuous Discharge Current	50 A
Surge Current Limit	400 A (300ms)
Charge Temperature Range	0°C~55°C (32~131°F)
Discharge Temperature Range	-20°~60°C (-4~140°F)
Storage Temperature Range	-5°~45°C (23~113°F)

### Capacity

Nominal Capacity	50 AH
Total Energy	1.28 kWh
Nominal Voltage	25.6 V

### Safety

- Cylindrical LiFePO4 cells [ITR26-70/40E 4Ah, 26700] (UL1642)
- IEC62133 (cell), IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP65 Rating

### Design

- Standard-size (BCI) ABS container for easy VRLA replacement
- Fast charge/discharge performance
- Maintenance-free operation
- Bluetooth Connectivity & dedicated IOS & Android App

### Battery Management System (BMS)

- Integrated hardware BMS inside
- Independent charge & discharge protection
- Short-Circuit Protection, Over-Voltage Protection, Low-Voltage Protection, Over-Current Protection, Low-Temperature Protection, Over-Temperature Protection

### 24V LFP Profile

Specifications		
Weight	12 kg	26.5 lbs
Length	260 mm	10.24"
Width	170 mm	6.69"
Height	208 mm	8.19"
Height Incl. Term.	211 mm	8.3"

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

Container	ABS
Cover	ABS
Handles	Integrated Top Mount
Internal BMS Model	8S50A
Expected Cycle Life	>6000 @ 80% DOD, >3000 @ 100% DOD
Series Connection	2 UNITS MAX (48V)
Parallel Connection	4 UNITS MAX (48V) or 6 UNITS MAX (24V)
Connectivity	Up to 254P (in 48V configuration) or 156P (in 24V configuration)

### Detailed Illustration

